



DANGO & DIENENTHAL

Products

Forging and Handling Technology

- Forging Manipulators
- Transport Manipulators
- Tool Manipulators
- Ingot Transport Cars
- Turntables
- Tool Changing Devices
- Handling Machines
- Heavy-Load Robots

Technology for Ferro-Alloy Plants

- Charging Machines
- Stoking and Distributing Machines
- Measuring Technology

Skimming Technology

- Skimming Machines
- Ladle Tilters

Filter Technology

- Filter Automats
- Combi Filters
- Multicartridge Filters
- Separators

Manufacturing Technology

- TMT Tapping Machinery
- TMT Measuring Equipment
- Other Special Equipment



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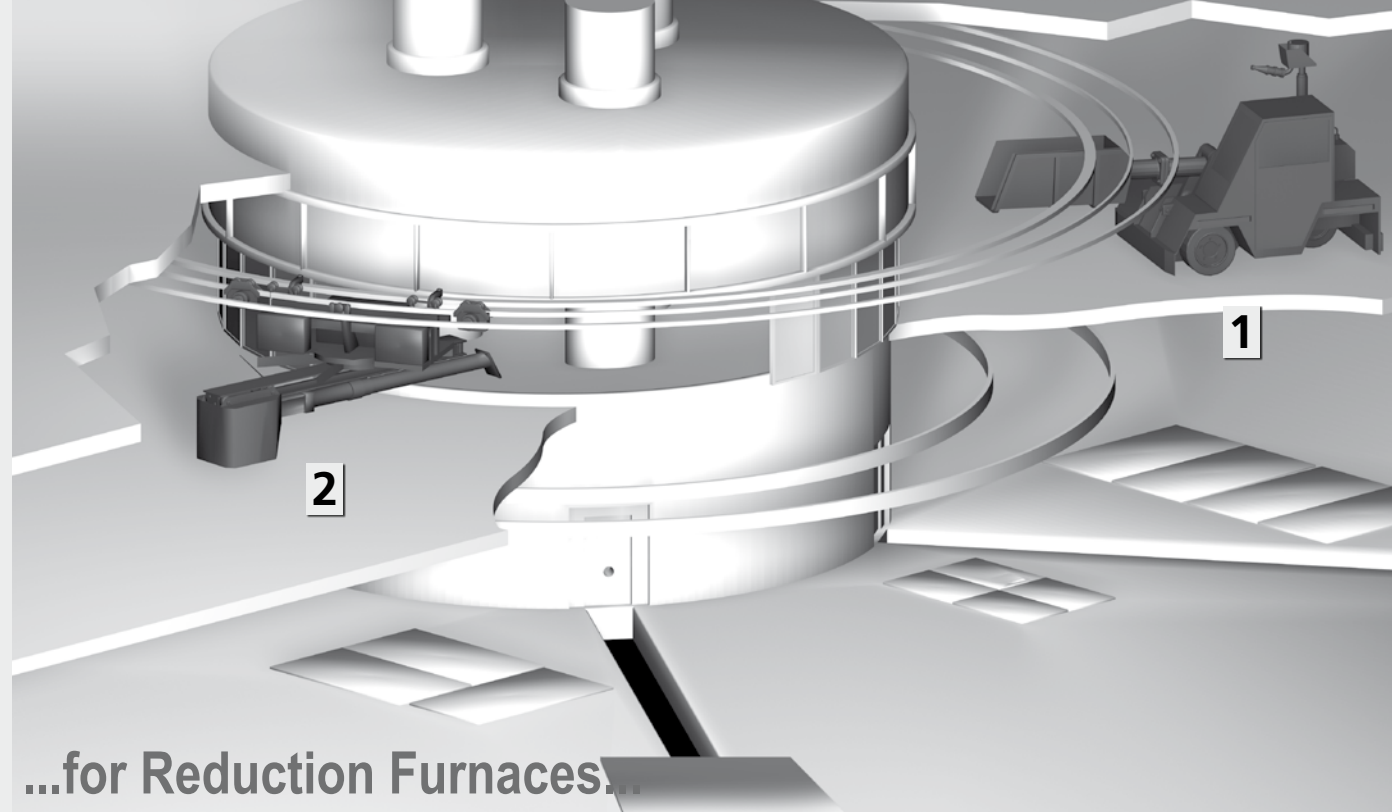
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Technology for Reduction Furnaces



Products...



...for Reduction Furnaces...

1 Mobile Charging, Stoking, and Distributing Machine

2 Rail-bound Charging, Stoking, and Distributing Machine

For decades now DANGO & DIENENTHAL has been one of the market leaders for the technology for reduction furnaces.

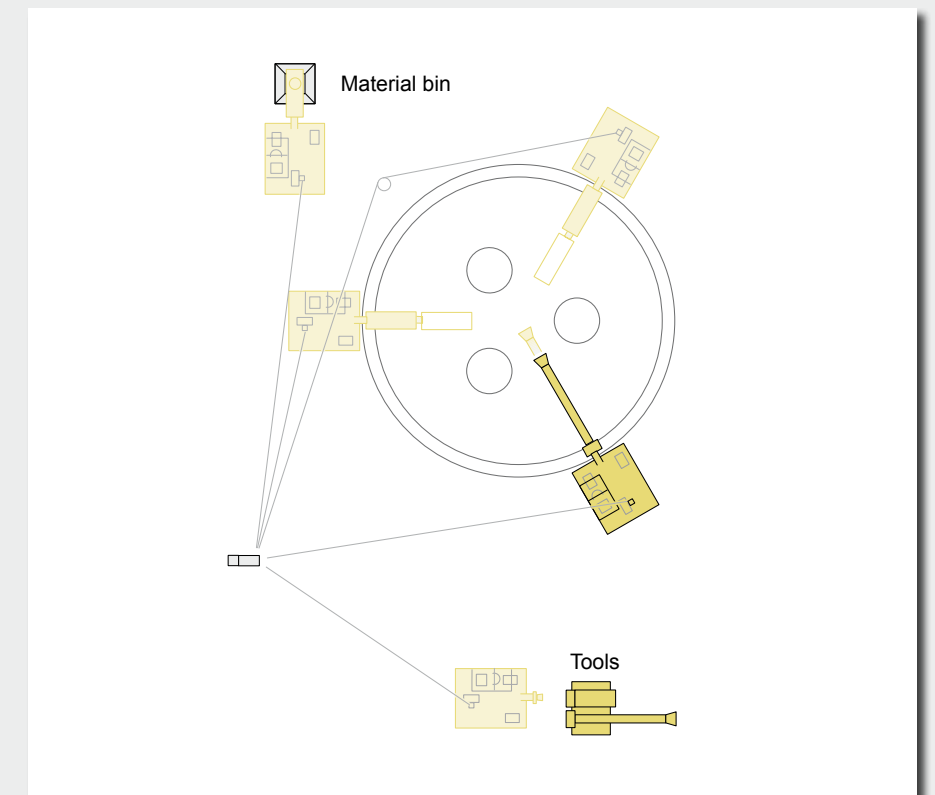
A great number of challenging reference units worldwide underlines this prominent position.

The experts of DANGO & DIENENTHAL gladly advise all users regarding choice of machine type and best-possible layout. Please contact us!

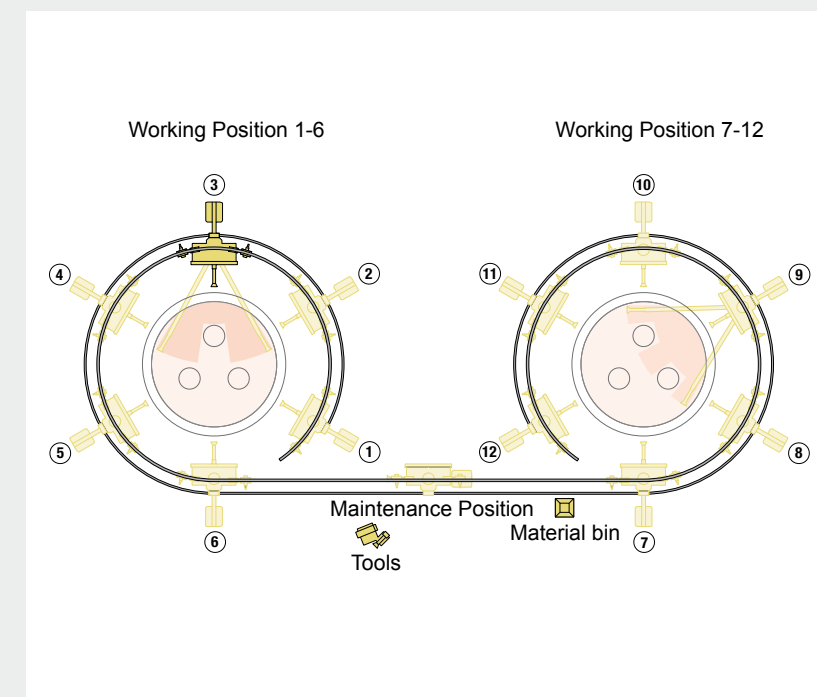
...as flexible solution...

A mobile machine performs all charging, stoking, and distributing work in a very flexible way.

On request the mobile charging and stoking machines by DANGO & DIENENTHAL can be prepared for automatic operation, for future use without driver.



...and fully-automatic solution



A fully-automatic machine performs all charging, stoking, and distributing work in a very systematic pattern and strictly in accordance with the requirements of the metallurgical engineer.

Further advantages are decreasing energy consumption during furnace operation as well as avoidance of damage to the furnace door, furnace lining, or the electrodes. Furthermore, an operator does not need to be in the hazardous area near the furnace.



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Mobile Charging, Stoking, and Distributing Machines

Quite often the space on the furnace platform is limited and calls for compact and manoeuvrable vehicles. The compact design of DANGO & DIENENTHAL charging, stoking, and distributing machines, along with a special lever system, allows our machines to be used in the most limited areas.

The driver does not need to leave the control stand to change the stoking tool against the charging box. By means of the box, charging material can be brought to specific points in the furnace. In case of tube charging, the material can be optimally distributed by the stoking tool.

The same tool can be used for deep stoking, breaking of the slag bridges and opening of gas bubbles, either using the lever system when the machine is standing still or during travelling utilizing the mass energy. The sturdy machine design in combination with the powerful drives guarantees the necessary forces and acceleration.

In contrast to solutions with rebuilt fork-lift trucks, machines by DANGO & DIENENTHAL provide unlimited view onto the

working area,
effective protection of the machines' hydraulic against the heat radiation of the furnace and clearly decreased maintenance expenses.



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Rail-bound Charging, Stoking, and Distributing Machines

Systematic charging, stoking, and distributing of material by means of automatic, program-controlled machines ensure an optimization of the furnace process.

Furnace production and output increase while energy consumption and electricity cost go down. Furthermore, damage to the furnace door, furnace lining or the electrodes are avoided. Also, the operators are better protected because normally nobody has to stay in the hazardous area of the furnace.

The machines are run on a monorail which allows charging, stoking, and distributing from all positions. Additionally the rail leads to a service or parking position for maintenance work in a protected area. On request the monorail can be extended so that one machine can work at several furnaces.

As an alternative to rail-bound automatic machines, DANGO & DIENENTHAL also offers a fully-automated variation of the mobile charging and stoking machine.



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